



R_b = internal radius of largest belt (3), $D_b = 2 R_b$
 R_w = radius of wheel, $D_w = 2 R_w$
 R_o = radius of opening (10)
 W_{os} = width of outer side portion (8)

Conditions:

From claim 2: $R_b = R_w (1 + \frac{6}{100}) = 1.06 R_w$

From claim 5: $2\pi R_o < 2.2 \times 2R_w$ ∴ $R_o < \frac{2.2}{\pi} R_w$

From drawing above: $W_{os} = R_b - R_o$

$$W_o > 1.06 R_w - \frac{2.2}{\pi} R_w > 0.36 R_w > \underline{0.18 D_w}$$

$$W_o > 0.36 R > 0.36 \frac{R_b}{1.06} > 0.34 R_b > \underline{0.17 D_b}$$

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